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1	2	20020064357.pn.	USPAT;	2004/06/04 08:07
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Ì			EPO; JPO;	
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			DERWENT	1
3	3	"04010463"	USPAT;	2004/06/04 08:16
			US-PGPUB;	ł
ļ			EPO; JPO;	
			DERWENT	
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ļ			EPO; JPO;	
			DERWENT	İ
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			US-PGPUB;	
İ	[EPO; JPO;	ĺ
_			DERWENT	
6	0	"50861890"	USPAT;	2004/06/04 09:11
			US-PGPUB;	
			EPO; JPO;	
			DERWENT	
7	0	"degree of compaction"	USPAT;	2004/06/04 09:11
			US-PGPUB;	
			EPO; JPO;	
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			EPO; JPO; DERWENT	
10	1070	zinc adj acrylate	USPAT;	2004/06/04 09:11
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	[DERWENT	
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15	66952	aspect adj ratio	USPAT;	2004/06/04 12:20
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18	2	4614827.pn.	USPAT;	2004/06/04 09:36
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			EPO; JPO;	
			DERWENT	
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			EPO; JPO;	
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24	1683	(aspect adj ratio) near4 crystal	USPAT;	2004/06/04 12:21
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			EPO; JPO;	
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25	2	(zinc adj acrylate) and ((aspect adj ratio)	USPAT;	2004/06/04 12:21
25		near4 crystal)	US-PGPUB;	
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			DERWENT	

Page 2

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4	BRS	L4	4	US-4169599-\$.DID. OR US-5789616-\$.DID.	USPAT; US-PG PUB; EPO; JPO; DERWE	2004/ 09:11	'06/04 ·			
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6	BRS	L6	0	"50861890"	EPO; JPO; DERWE NT		/06/04 L			
7	BRS	L7	0	"degree of compaction"	USPAT; US-PG PUB; EPO; JPO; DERWE	2004/ 09:11	'06/04 L			

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.0	BRS	L13	12048 80	aspect	EPO; JPO; DERWE NT	2004/06/04 09:11		
.1	BRS	L14	229	(zinc adj acrylate) and aspect	USPAT; US-PG PUB; EPO; JPO; DERWE NT	2004/06/04 09:11		
L2	BRS	L15	66952	aspect adj ratio	USPAT; US-PG PUB; EPO; JPO; DERWE NT	2004/06/04 12:20		
L3	BRS	L17	0	(zinc adj acrylate) same (aspect adj ratio)	USPAT; US-PG PUB; EPO; JPO; DERWE NT	2004/06/04 09:11		
14	BRS	L8	3	"02218639"	USPAT; US-PG PUB; EPO; JPO; DERWE	2004/06/04 09:11		

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16	BRS	L10	4	"06079018"	EPO; JPO; DERWE NT		/06/04 ?			
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18	BRS	L18	2	4614827.pn.	USPAT; US-PG PUB; EPO; JPO; DERWE NT	2004, 09:36	/06/04 5			
19	BRS	L19	6	4614827.URPN.	USPAT	2004,	/06/04 2			
20	BRS	L20	13866	stearate	USPAT; US-PG PUB; EPO; JPO; DERWE	2004, 09:3	/06/04 6			
21	BRS	L21	1	l19 and 120	USPAT; US-PG PUB; EPO; JPO; DERWE	2004	/06/04 6			
22	BRS	BRS L22 8^{91048} crystal		USPAT; US-PG PUB; EPO; JPO; DERWE	2004 12:2	/06/04 0				

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	Туре	L #	Hits	Search Text	DBs	Time	Stamp	Comments	Error	Definition
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24	BRS	L24	1683	l15 near4 l22		2004/ 12:21				
25	BRS	L25	2	112 and 124		2004/ 12:21				

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25	0

NEWS 21 May 27 STN User Update to be held June 7 and June 8 at the SLA 2004 Conference

NEWS 22 May 27 New UPM (Update Code Maximum) field for more efficient patent SDIs in CAplus

NEWS 23 May 27 CAplus super roles and document types searchable in REGISTRY

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SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

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Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

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=> e zinc acrylate/cn
                   ZINC ACEXAMATE/CN
E1
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E2
             1
                   ZINC ACID PHOSPHATE/CN
E3
             1 --> ZINC ACRYLATE/CN
                                                   A CONTRACT OF THE SECOND
E4
             1
                   ZINC ACRYLATE HOMOPOLYMER/CN
E5
             1
                   ZINC ACRYLATE POLYMER/CN
             1
F.6
                   ZINC ACRYLATE-CALCIUM ACRYLATE-LAURYL VINYL ETHER COPOLYMER/
E7
                   ZINC ACRYLATE-CALCIUM ACRYLLATE-LAURYL VINYL ETHER POLYMER/C
             1
             1
E8
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E.9
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E11
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E12
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=> e3
L1
             1 "ZINC ACRYLATE"/CN
=> d 11
     ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
     14643-87-9 REGISTRY
     2-Propenoic acid, zinc salt (9CI) (CA INDEX NAME)
CN
OTHER CA INDEX NAMES:
    Acrylic acid, zinc salt (8CI)
CN
     Zinc acrylate (7CI)
OTHER NAMES:
CN
    Actor ZA
CN
    Blemmer S 122
    RR-ZDA
CN
CN
    Saret 633
CN
    Sartomer 633
CN
    SR 111
    SR 526
CN
     SR 633
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     SR 633 (acrylate)
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CN
     SR 705
     SR 706
CN
CN
     Zinc diacrylate
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     Zinc(II) acrylate
CN
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DR
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         (*File contains numerically searchable property data)
     Other Sources:
                    EINECS**, NDSL**, TSCA**
         (**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Conference; Journal; Patent
       Roles from patents: BIOL (Biological study); PREP (Preparation); PROC
RL.P
       (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses);
       NORL (No role in record)
      Roles for non-specific derivatives from patents: BIOL (Biological
RLD.P
       study); PREP (Preparation); PRP (Properties); USES (Uses)
      Roles from non-patents: PREP (Preparation); PROC (Process); PRP
       (Properties); RACT (Reactant or reagent); USES (Uses)
RLD.NP Roles for non-specific derivatives from non-patents: PREP
       (Preparation); PRP (Properties); USES (Uses)
    (79-10-7)
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●1/2 Zn

486 REFERENCES IN FILE CA (1907 TO DATE)

27 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

486 REFERENCES IN FILE CAPLUS (1907 TO DATE) 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file caplus
COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 7.04 7.25

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 08:11:19 ON 04 JUN 2004
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FILE COVERS 1907 - 4 Jun 2004 VOL 140 ISS 24 FILE LAST UPDATED: 3 Jun 2004 (20040603/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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606064 PARTICLE 685838 PARTICLES 1028108 PARTICLE

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L4 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN

TI Multilayer golf ball having solid particle-dispersed intermediate rubber layer

- L4 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Golf ball having solid particle-dispersed intermediate rubber layer
- L4 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Production of zinc acrylate particle composition for use in rubber formulations
- L4 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Preparation of surface-treated metal acrylate particles having improved dispersibility in rubbers
- L4 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Production of zinc acrylate
- L4 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Manufacture of zinc acrylate for improved kneadability of rubber compositions
- L4 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Core compositions with good durability for two-piece golf balls
- L4 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Zinc acrylate

=> d 14 1-8 ti fbib abs

- L4 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Multilayer golf ball having solid particle-dispersed intermediate rubber layer
- AN 2003:633250 CAPLUS
- DN 139:165621
- TI Multilayer golf ball having solid particle-dispersed intermediate rubber layer
- IN Endo, Seiichiro; Ohama, Keiji
- PA Japan
- SO U.S. Pat. Appl. Publ., 12 pp. CODEN: USXXCO
- DT Patent
- LA English
- FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO. DATE	
ΡI	US 2003153406	A1	20030814	US 2003-353930 20030130	
				JP 2002-34979 A 20020213	
	JP 2003230640	A2	20030819	JP 2002-34979 20020213	

- AB Golf ball has a core, a mid layer, and a cover. The mid layer comprises a matrix of base material rubber or a synthetic resin, and 5-50% solid particles which are dispersed in this matrix. Hardness (Shore D), Hg, of the solid particles is greater than hardness, Hm, of the matrix, Hg of the solid particles is ≥ 40 , and Hm of the matrix is ≥ 30 . Difference between both hardness (Hg-Hm) values is >5. Particle size, D, of the solid particles is ≥ 0.5 mm. A ratio D/T, i.e., a ratio of the particle size D of the solid particles to the thickness T of the mid layer is ≥ 0.1 .
- L4 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Golf ball having solid particle-dispersed intermediate rubber layer
- AN 2003:610043 CAPLUS
- DN 139:150941
- TI Golf ball having solid particle-dispersed intermediate rubber layer
- IN Ohama, Keiji; Endo, Seiichiro
- PA Japan

SO U.S. Pat. Appl. Publ., 10 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	US 2003148826	A1	20030807	US 2003-353027	20030129
				JP 2002-29919 A	20020206
	JP 2003225329	A2	20030812	JP 2002-29919	20020206

AB Title golf ball consists of a core, a mid layer, and a cover, wherein said mid layer comprises a matrix of which base material is a rubber or a synthetic resin, and solid particles which are dispersed in said matrix and have a particle size D of ≥0.5 mm, and when it is assumed that Shore D hardness of said matrix be Hm and Shore D hardness of said solid particles be Hg, a value (Hm - Hg) is ≥5. Thus, a rubber composition was obtained by kneading polybutadiene rubber BR11 100, zinc acrylate 22, zinc oxide 10, and dicumyl peroxide 1.0 part, placed in a mold to give a crosslinked piece which was ground into particles as fillers for the mid layer of a golf ball showing good testing results such as resilience, travel distance, and feel at impact.

- L4 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Production of zinc acrylate particle composition for use in rubber formulations
- AN 2003:492749 CAPLUS
- DN 139:54165
- TI Production of zinc acrylate particle composition for use in rubber formulations
- IN Higuchi, Hiroshi; Kataoka, Nobuyuki; Nanba, Atsushi; Kobayashi, Keiji; Hasegawa, Manabu; Saito, Yoshinori
- PA Bridgestone Sports Co., Ltd., Japan
- SO U.S. Pat. Appl. Publ., 14 pp., Cont.-in-part of U.S. Ser. No. 173,420. CODEN: USXXCO
- DT Patent
- LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO. DATE
ΡI	US 2003120098	A1	20030626	US 2002-269946 20021015 JP 2001-198750 A 20010629 US 2002-173420 A220020618
PATE FAN	JP 2003012600 ENT FAMILY INFORMA 2003:36436	A2 ATION:	20030115	JP 2001-198750 20010629
	PATENT NO.	KIND	DATE	APPLICATION NO. DATE
PI	JP 2003012600 US 2003120098	A2 A1	20030115 20030626	JP 2001-198750 20010629 US 2002-269946 20021015 JP 2001-198750 A 20010629 US 2002-173420 A220020618

AB A zinc acrylate particle composition comprises zinc acrylate satisfying the conditions (a) the proportion of the zinc acrylate particles with the particle size \geq 300 μm is \leq 20% based on the mass of all particles as determined by the dry method, (b) the median of particle sizes as determined by the dry method is 10-300 μm , and (c) the ratio of the median of particle sizes as determined by the dry method to the median of particle sizes as determined by the wet method exceeds 2, the composition addnl.

comprising

an anionic surfactant. A golf ball has as a component made from a rubber composition comprising 1,4-polybutadiene rubber containing \geq 40% of a cis form, the zinc acrylate particle composition (10-60) as a co-crosslinking agent, an inactive filler (5-80), and a crosslinking agent (\leq 5

phr). Thus, a suspension comprising toluene (2386), an anionic surfactant (Pelex OT-P) (4.5), and zinc oxide (570) was produced, followed by adding a solution of stearic acid (140) in toluene (490 g) at 40° to the suspension over a period of 1 h, and reacting the components for addnl. 2 h. Acrylic acid (999 g) was added at 15° to the reacted suspension gradually over a period of 3 h, and the reaction was carried out for 4 h at 40° . Zinc acrylate particles (1550 g) containing 0.2% of the anionic surfactant and 10% zinc stearate were obtained after drying.

L4 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN

TI Preparation of surface-treated metal acrylate particles having improved dispersibility in rubbers

AN 1998:723823 CAPLUS

DN 129:331955

- TI Preparation of surface-treated metal acrylate particles having improved dispersibility in rubbers
- IN Nagel, Walter R.; Costin, C. Richard; Ceska, Gary W.
- PA Sartomer Co., Inc., USA; Cray Valley S.A.
- SO PCT Int. Appl., 18 pp. CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PΙ

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		PT,	SE														
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US	6194.	504		B	1	2001	0227		U:	S 19	97-8	47705	5	1997	0428		
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EP	9778	00		B	1	2001	0829										
	R:	BE,	CH,	DE,	ES,	FR,	GB,	IT,	LI,	NL							

US 1997-847705 A 19970428 WO 1998-EP2467 W 19980424

- AB Title metal (meth)acrylate MAn (M = Zn, Ca, Mg, K, Na, Li, Fe, Co, Zr, Al, Ba, and Bi; A = (meth)acrylate; and n = 1-4) in particulate form is prepared by contacting a metal (meth)acrylate with a solution of polymer or mineral oil in organic solvent to encapsulate the salt, and then removing the solvent. The metal (meth)acrylates are especially useful as scorch retarders used in the processing of elastomers in a two roll mill or Banbury type internal mixer. Thus, 10 parts zinc diacrylate treated with 5% R 45HT (hydroxy-terminated polybutadiene) was blended with 256 parts EPDM masterbatch containing Nordel 1040 (EPDM rubber) and additives, 1 part Resin D, and 7.5 parts DiCup 40KE on mill roll, showing no plate out, dust-free, and short incorporation time into the rubber composition
- RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L4 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
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- TI Production of zinc acrylate
- AN 1998:534929 CAPLUS
- DN 129:162682
- TI Production of zinc acrylate
- IN Kobayashi, Keiji; Kodama, Yukihisa; Saotome, Minoru; Saito, Yoshinori
- PA Bridgestone Sports Co., Ltd, Japan; Nippon Shokubai Co., Ltd; Nihon Joyu Kogyo Co., Ltd.
- SO U.S., 11 pp. CODEN: USXXAM
- DT Patent
- LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
		_			
PI	US 5789616	Α	19980804	US 1997-874127 US 1997-874127	19970612 19970612

AB A method is provided for the production of zinc acrylate which possesses an essentially fine constitution, permits easy pulverization into a fine powder, and, when kneaded with a rubber composition, attains uniform diffusion in a state very rarely inducing fast adhesion or formation of clusters. The fine zinc acrylate powder is obtained by reacting acid and a C12-30 fatty acid (such as palmitic or stearic acid) with ZnO in an organic solvent while continuing dispersion of the ZnO in the organic solvent in the presence of an anionic surfactant such as AOT. In examples using stearic acid and Pellex OT-P surfactant, Zn acrylate was obtained 59-65% of which had particle size ≤44 μm. Omission of the surfactant resulted in 28% product with particle size ≤44 μm and poor workability.

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L4 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Manufacture of zinc acrylate for improved kneadability of rubber compositions
- AN 1997:526088 CAPLUS
- DN 127:150124
- TI Manufacture of zinc acrylate for improved kneadability of rubber compositions
- IN Kobayashi, Keiji; Kodama, Yukihisa; Saotome, Minoru; Saito, Yoshinori
- PA Nippon Shokubai Kagaku Kogyo Co., Ltd., Japan; Nippon Joryu Kogyo K. K.
- SO Jpn. Kokai Tokkyo Koho, 7 pp. CODEN: JKXXAF
- DT Patent
- LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	JP 09202747	A2	19970805	JP 1996-12200 JP 1996-12200	19960126 19960126

- AB Fine Zn acrylate is manufactured by reaction of acrylic acid and C12-30 fatty acids with ZnO while dispersing ZnO in organic solvents in the presence of anionic surfactants. Thus, stirring 1411 g ZnO in PhMe containing 11.4 g Pelex OT-P (Na dioctylsulfosuccinate), treating 540 g stearic acid in the suspension at 40°, further treating 2362 g acrylic acid in the suspension at 40°, heating up to 50°, removing H2O and PhMe, and drying gave 3988 g Zn acrylate (containing Zn stearate) with content of ≤44-µm particles 64%. Butadiene rubber was kneaded with 30 phr the particles, showing no adhesion to the inner wall of Banbury mixer.
- L4 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Core compositions with good durability for two-piece golf balls
- AN 1995:524114 CAPLUS
- DN 123:172326
- TI Core compositions with good durability for two-piece golf balls
- IN Inomata, Yoshihiro; Yamaguchi, Kiyohiro; Irii, Daisuke
- PA Yokohama Rubber Co Ltd, Japan
- SO Jpn. Kokai Tokkyo Koho, 7 pp. CODEN: JKXXAF
- DT Patent
- LA Japanese
- FAN.CNT 1

1741.	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
					
ΡI	JP 07048477	A2	19950221	JP 1993-192130 JP 1993-192130	19930803 19930803

AB The compns. contain rubber components containing butadiene rubber with cis-1,4

content \geq 40% 100, unsatd. carboxylic acid metal salts 9-18 (5-10 parts as unsatd. carboxylic acids), urethane acrylates 5-30, organic peroxides 0.5-3 parts, and amide group-containing fine fibers or fine particles. Thus, BR 01 (cis-butadiene rubber) 100, Ubepol HE (amide-containing fine fiber-natural rubber composite) 3, ZnO 12, Zn acrylate 14, reaction product of hexamethylene diisocyanate trimer (isocyanurate) and glycerol di(mono)methacrylate 10, Aerosil 200 20, N,N'-4,4'-diphenylmethanebismaleimide 10, and dicumyl peroxide 1 part were mixed, press-molded, and covered with Surlyn 1707 to give a golf ball showing good durability and impact resilience.

L4 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN

TI Zinc acrylate

AN 1985:524798 CAPLUS

DN 103:124798

TI Zinc acrylate

PA Sumitomo Rubber Industries, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 3 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PΙ	JP 60092238	A2	19850523	JP 1983-201827	19831026
	JP 04010463	.B4	19920225		

JP 1983-201827 19831026

AB Zinc acrylate (I) [14643-87-9], useful as a vulcanizing agent for butadiene rubber (no data), is prepared in granular form by treating acrylic acid (II) [79-10-7] with Zn compds., mixing with higher fatty acid Zn salts, and drying. Thus, 1060 g II was stirred with 600 g ZnO in PhMe, treated with a solution of 130 g Zn stearate (III) [557-05-1] in PhMe, and dried in vacuo at 50° to give 1620 g fine particles of III-coated I. I prepared similarly without the III showed sputtering, agglomeration, and deposition on the mixer surfaces during drying.

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'LOGOFF' IS NOT VALID HERE
For an explanation, enter "HELP LOGOFF".

=> logoff hold COST IN U.S. DOLLARS	SINCE FILE	TOTAL
FULL ESTIMATED COST	ENTRY 37.53	SESSION 44.78
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-5.54	-5.54

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* * * * * RECONNECTED TO STN INTERNATIONAL * * * * * SESSION RESUMED IN FILE 'CAPLUS' AT 08:55:19 ON 04 JUN 2004 FILE 'CAPLUS' ENTERED AT 08:55:19 ON 04 JUN 2004 COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS TOTAL SINCE FILE ENTRY SESSION FULL ESTIMATED COST 37.97 45.22 SINCE FILE TOTAL DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) ENTRY SESSION CA SUBSCRIBER PRICE -5.54-5.54

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(FILE 'HOME' ENTERED AT 08:10:12 ON 04 JUN 2004)

FILE 'REGISTRY' ENTERED AT 08:10:21 ON 04 JUN 2004 E ZINC ACRYLATE/CN

L11 E3

FILE 'CAPLUS' ENTERED AT 08:11:19 ON 04 JUN 2004

L2486 L1

1028108 PARTICLE L3

8 L2(L)L3 L4

=> cryst?

1853915 CRYST? L5

=> 15(1)12

2 L5(L)L2 $_{\rm L6}$

=> d 16 1-2 ti fbib abs

ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN L6

ΤI Polymer dispersion type liquid crystal display panel with good light scattering property and high-contrast and its manufacture

1997:456859 CAPLUS ΑN

127:88143 DN

TΙ Polymer dispersion type liquid crystal display panel with good light scattering property and high-contrast and its manufacture

IN Senda, Hideo; Yoshida, Hideshi; Nakamura, Kimiaki; Tsuda, Hideaki

PΑ Fujitsu Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp. CODEN: JKXXAF

DTPatent

LA Japanese

FAN.CNT 1

JP 09127400 PATENT NO. KIND DATE JP 1995-284723 19951101 PΙ JP 09127488 A2 19970516 JP 1995-284723 19951101

AΒ In the title display panel having a pair of transparent electrode-bearing substrates, the substrate has on its surface a multi-functional (meth)acrylate-based layer, a polymer-dispersion type liquid crystal precursor is placed between 2 substrates, and the panel is obtained by impressed an active energy such as UV- beam or heat. The display panel is driven by an active matrix and can be used for projection-type optical apparatus

ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN

Network fiber-reinforced rubber compositions and their manufacture ΤI

1995:360638 CAPLUS AN

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DN 122:216354
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TI Network fiber-reinforced rubber compositions and their manufacture

IN Shioyama, Tsutomu; Hamano, Naoki

PA Bando Chemical Ind, Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	JP 06299004	A2	19941025	JP 1993-87323	19930414
	JP 3384499	В2	20030310		
				JP 1993-87323	19930414

AB The compns., useful for belts (no data), are manufactured by kneading 100 parts crosslinkable rubbers and 0.5-130 parts liquid-crystalline polymers above the heat-distortion temperature of the liquid-crystalline polymers and then kneading below

the heat-distortion temperature. The high-temperature kneading may be carried out in

the optional presence of resorcinol-formaldehyde precondensates or resorcinol-alkylphenol-formaldehyde precondensates, followed by low-temperature kneading in the optional presence of methylolated melamines, or the whole kneading may be carried out in the presence of metal salts of carboxy-containing vinyl monomers. Thus, a mixture of Zetpol 2020 100, Novaccurate E 310_(liquid-crystalline_polymer) 1, and Nocrac 200 3 parts was kneaded at 180° for 10 min, then kneaded at 60° for 10 min, mixed with 5 parts Peroximon F 40, and kneaded in rolls at .apprx.60° to give a rubber composition containing fibrillated

liquid-crystalline polymer, which was extruded through rolls to give a 1-mm-thick sheet and press-cured at 160° for 30 min. The sheet showed modulus 3.4 MPa, 50% modulus 0.8 MPa, breaking strength 17.4 MPa, and elongation at break 580% in the direction of sheet extrusion, vs. 2.9, 0.6, 10.3, and 430,

resp., in the absence of Novaccurate E 310.

=> d 18 1-7 ti

L8 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN

TI Synthesis of α -willemite nanoparticles by post-calcination of flame-made zinc oxide/silica composites

L8 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN

TI Homogeneous ZnO Nanoparticles by Flame Spray Pyrolysis

L8 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN

TI Adhesion of modified PE/EPDM blends to steel

L8 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN

TI Noise gratings recorded with single-beam exposures in liquid holographic photopolymers

L8 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN

TI golf ball core compositions

L8 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN

- TI Preparation of 2-hydroxymethylphenol
- L8 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Modified crystalline propylene polymer

=> d 18 1-7 ti fbib abs

- L8 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Synthesis of α -willemite nanoparticles by post-calcination of flame-made zinc oxide/silica composites
- AN 2002:956444 CAPLUS
- DN 139:158834
- TI Synthesis of α -willemite nanoparticles by post-calcination of flame-made zinc oxide/silica composites
- AU Tani, Takao; Madler, Lutz; Pratsinis, Sotiris E.
- CS Toyota Central R & D Labs., Inc., Nagakute, Aichi, 480-1192, Japan
- SO Particle & Particle Systems Characterization (2002), 19(5), 354-358 CODEN: PPCHEZ; ISSN: 0934-0866
- PB Wiley-VCH Verlag GmbH & Co. KGaA
- DT Journal
- LA English
- Composite ZnO/SiO2 nanoparticles were made by flame spray pyrolysis (FSP). AΒ Characteristics of the product powder and its crystallization behavior on post-calcination were evaluated. Polyhedral aggregates of nano-sized primary particles consisting of ZnO nanocrystals 1-3 nm in size and amorphous SiO2 were obtained by FSP. A short residence time in the flame can result in the coexistence of the ZnO and SiO2 clusters without substitution or reaction hindering each other's grain growth. There was almost no change in the XRD pattern by calcination at 600° for 2 h, suggesting a high thermal stability of the ZnO nanocrystals in the composite particles. A pure α -willemite phase was obtained at 900°. At this calcination temperature, dC and dBET of the powder were 63 and 44 nm, resp. The nano-composite structure of the FSP-made particles can suppress crystalline growth of ZnO during calcination to maintain a high reactivity of ZnO with SiO2, obtaining pure α -willemite with high sp. surface area at low calcination temps.
- RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L8 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Homogeneous ZnO Nanoparticles by Flame Spray Pyrolysis
- AN 2002:877073 CAPLUS
- DN 138:306136
- TI Homogeneous ZnO Nanoparticles by Flame Spray Pyrolysis
- AU Tani, Takao; Maedler, Lutz; Pratsinis, Sotiris E.
- CS Department Of Mechanical And Process Engineering, Institute Of Process Engineering, ETH Zurich, Zurich, CH-8092, Switz.
- SO Journal of Nanoparticle Research (2002), 4(4), 337-343 CODEN: JNARFA; ISSN: 1388-0764
- PB Kluwer Academic Publishers
- DT Journal
- LA English
- AB ZnO nanoparticles were made by flame spray pyrolysis of zinc acrylate-methanol-acetic acid solution. The effect of solution feed rate on particle sp. surface area and crystalline size was examined. The average primary particle diameter can be controlled from 10 to 20 nm by the solution feed rate. All powders were crystalline zincite. The primary particle diameter observed by transmission electron microscopy was in agreement with the equivalent average primary particle diameter calculated from the sp.

surface

area as well as with the **crystalline** size calculated from the x-ray diffraction patterns for all powders, indicating that the primary

particles were rather uniform in diameter and single **crystals**. Increasing the solution feed rate increases the flame height, and therefore coalescence and/or surface growth was enhanced, resulting in larger primary particles. Compared with ZnO nanoparticles made by other processes, the flame spray pyrolysis-produced powder exhibits some of the smallest and most homogeneous primary particles. Furthermore, the flame spray pyrolysis-produced powder has comparable BET equivalent primary particle diameter with but higher **crystallinity** than sol-gel derived ZnO powders.

RE.CNT 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L8 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Adhesion of modified PE/EPDM blends to steel
- AN 1998:453007 CAPLUS
- DN 129:136831
- TI Adhesion of modified PE/EPDM blends to steel
- AU Viksne, A.; Rence, L.; Kalnins, M.
- CS Institute of Polymer Materials, Riga Technical University, Riga, LV1048, Latvia
- SO Journal of Macromolecular Science, Pure and Applied Chemistry (1998), A35(7 & 8), 1165-1185
 CODEN: JSPCE6; ISSN: 1060-1325
- PB Marcel Dekker, Inc.
- DT Journal
- LA English
- AΒ Crosslinking of low- and high-d. polyethylene blends with ethylene-propylenediene terpolymer (EPDM) involving 10, 20, 30% EPDM with dicumyl peroxide (DCP) in the presence of coagent, Zn diacrylate, was investigated. It was found that such blends exhibit increased adhesion against steel and improved strength-deformation properties in comparison with similar blends crosslinked with DCP alone. The peel strength of about 16 kN/m (in the case of modified LDPE/EPDM blend) and 4 kN/m (in the case of modified HDPE/EPDM blend) was observed The correlation between peel strength and parameters (oxygen uptake, content of oxygen containing groups, change of weight depending on temperature) which characterize thermooxidative conversations in polymer, was studied. The sol and gel fractions of crosslinked blends were characterized by IR spectroscopy, DSC and TG methods. Based on these results, it was assumed that improved peel strength of modified LDPE/EPDM blend is due to optimal ratio between oxidative crosslinking and oxidative degradation for this blend. Another reason may be the increase of interfacial adhesion caused by possible formation of graft copolymer LDPE-EPDM.
- RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L8 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Noise gratings recorded with single-beam exposures in liquid holographic photopolymers
- AN 1996:351837 CAPLUS
- DN 125:22165
- TI Noise gratings recorded with single-beam exposures in liquid holographic photopolymers
- AU Fimia, A.; Belendez, A.; Carretero, L.
- CS Departamento Interunversitario de Optica, Universidad de Alicante, Alicante, E-03080, Spain
- SO Proceedings of SPIE-The International Society for Optical Engineering (1996), 2688 (Holographic Materials II), 135-140 CODEN: PSISDG; ISSN: 0277-786X
- PB SPIE-The International Society for Optical Engineering
- DT Journal
- LA English
- AB Photopolymers can be considered viable holog. material because of their

many attractive features. Among these we could mention their ability to self-develop, the fact dry processing can be used with them, their good stability and thick emulsion layers, their high sensitivity, diffraction efficiency and resolution, and finally their non-volatile storage. Among the different sources of noise in holog., noise gratings are due to scattering from inhomogeneities in the recording material and have an important spurious effect on volume holog. Their effect at reconstruction is to bring about a reduction in diffraction efficiency and signal-to-noise ratio. Even though these scatter gratings have been seen in PMMA and other photopolymers, and in photorefractive crystals, they have really only been analyzed extensively for photog. emulsions, and information about these grating structures in photopolymers is quite scarce. communication we present the observation of noise gratings in an acrylamide photopolymer for use in real time holog. The possibilities of this noise source as a optimization technique for this type of materials are pointed out. Noise gratings in these polymer films were created upon exposure to a He-Ne laser collimated beam at 633 nm without any subsequent processing step. The influence of intensity on recording noise gratings and angular selectivity are reported showing its influence on the recording of this type of noise source in real time holog. materials.

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rac{1}{8}
     ANSWER 5 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
ΤI
     golf ball core compositions
AN
     1995:420615 CAPLUS
     123:35089
DN
TI
     golf ball core compositions
     Sullivan, Michael J.
IN
PA
     Lisco, Inc., USA
SO
     U.S., 13 pp.
     CODEN: USXXAM
DT
     Patent
     English
LΑ
FAN.CNT 1
                      KIND DATE
                                           APPLICATION NO. DATE
     PATENT NO.
PI
    US 5387637
                            19950207
                      Α
                                           US 1992-932654
                                                             19920820
                                           US 1992-932654
                                                             19920820
AΒ
     The present invention is directed to improved polybutadiene compns.
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AB The present invention is directed to improved polybutadiene compns. suitable for molded golf ball core construction. The improved polybutadiene compns. contain specific naturally occurring, essentially non-reinforcing, crystalline (preferably microcryst.) silica particles which have the effect of increasing the resilience and/or hardness of the resulting molded cores. In addition, the compns. contain ≥1 metallic salt of an α, β-ethylenically unsatd. monocarboxylic acid and a free radical initiator.

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L8 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
```

TI Preparation of 2-hydroxymethylphenol

AN 1994:191330 CAPLUS

DN 120:191330

TI Preparation of 2-hydroxymethylphenol

IN Kosaka, Hideo; Tokumaru, Tooru

PA Sumitomo Chemical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PΙ

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05271134	A2	19931019	JP 1990-407766	19901227
			JP 1990-407766	19901227

AB The title compound (I), useful as material for perfumes, agrochems., etc.,

is prepared by reaction of PhOH with HCHO or its precursors in the presence of catalysts, adjusting PhOH content of the reaction mixts. at 15-55%, and precipitation-separation of I using aromatic hydrocarbons or halogenated hydrocarbons as

recrystn. solvents. Heating a mixture of PhOH, cyclohexanol, paraformaldehyde, and Zn(OAc)2.2H2O at 80° for 2 h and vacuum distillation of the reaction mixture at 100° gave a residue containing 42.9% I and 40.4% PhOH, which was dissolved in PhMe, then cooled gradually to 15° to obtain 49.9% crystallineI of 97.24% purity.

- L8 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Modified crystalline propylene polymer
- AN 1976:6173 CAPLUS
- DN 84:6173
- TI Modified crystalline propylene polymer
- IN Ogihara Sadahide; Nakamura, Yoichi; Fukui, Osamu
- PA Ube Industries, Ltd., Japan
- SO Ger. Offen., 64 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2510701 DE 2510701	A1 B2	19750925 19771020	DE 1975-2510701	19750312
				JP 1974-29193	19740315
	JP 50129693 JP 51024556	A2 B4	19751014 19760724	JP 1974-29193	19740315
	SE 7502139	Α	19750916	SE 1975-2139	19750226
	SE 416958	В	19810216		
	SE 416958	C	19810604		
				JP 1974-29193	19740315
	GB 1463452	Α	19770202	GB 1975-8052	19750226
				JP 1974-29193	19740315
	US 4032592	Α	19770628	US 1975-553439	19750227
				JP 1974-29193	19740315
	CA 1048686	A1	19790213	CA 1975-221236	19750304
				JP 1974-29193	19740315
	FR 2264041	A1	19751010	FR 1975-8122	19750314
				JP 1974-29193	19740315

Adhesives with improved chemical, phys., and elec. properties contain crystalline propylene polymers, peroxides, 3-(trimethoxysily1)propyl methacrylate (I) [2530-85-0], and (meth)ally1 compds. or (meth)acrylates. Thus, a mixture of 8:92 block ethylene-propylene polymer [9010-79-1] 100, Bz00CMe3 [614-45-9] 0.5, I 0.5, and ally1 glycidy1 ether (II) [106-92-3] 0.5 parts, prepared at 220°, is pressed at 240° to a 100 μ film which is used to bond 2 0.1 mm Al sheets at 220° and 10 kg/cm2, giving a joint with T-test peel strength 7.5 kg/cm; compared with 0.5 in the absence of I, and 4.0 in the absence of II.

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=> 11/prep
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486 L1

3155446 PREP/RL

L9 29 L1/PREP

(L1 (L) PREP/RL)

- L9 ANSWER 25 OF 29 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Preparation and some properties of zinc, copper(II), cobalt(II), and nickel(II) acrylates

^{=&}gt; d 19 25-29 ti fbib abs

```
AN
     1984:23023 CAPLUS
DN
     100:23023
     Preparation and some properties of zinc, copper(II), cobalt(II), and
TI
     nickel(II) acrylates
     Wojtczak, Zbigniew; Gronowski, Adam
ΑU
     Uniw. Mikolaja Kopernika, Torun, Pol.
CS
     Polimery (Warsaw, Poland) (1982), 27(12), 471-4
     CODEN: POLIA4; ISSN: 0032-2725
     Journal
DT
LA
     Polish
     The title acrylates were prepared by reaction of acrylic acid [79-10-7]
AB
     with ZnO, Cu(OH)2, 2CoCO3·3Co(OH)2·H2O, and
     NiCO3·2Ni(OH)2·4H2O in MeOH or hydrocarbon suspensions. The
     latter method was more advantageous. The optimum preparative conditions
     were established. The acrylates of Zn and Cu were prepared as anhydrous salts,
     whereas those of Co and Ni contained constitutive water. Some properties
     (solubility, elec. conductivity of solns., etc.) of the acrylates were
determined Radical
     and thermal polymerization indicated highest reactivity of zinc acrylate
     [14643-87-9], as compared to that of the remaining acrylates.
     ANSWER 26 OF 29 CAPLUS COPYRIGHT 2004 ACS on STN
L9
TΙ
     Zinc acrylate
AN
     1981:424278 CAPLUS
DN
     95:24278
     Zinc acrylate
TI
     Munteanu, Dan; Boncea, Gheorghe; Savu, Corneliu; Savu, Neonela; Sandru,
IN
     Dan; Cruceanu, Augustin; Rosiu, Lucian
     Combinatul Petrochimic, Pitesti, Rom.
PA
SO
     Rom., 3 pp.
     CODEN: RUXXA3
DT
     Patent
LA
     Romanian
FAN.CNT 1
                                         APPLICATION NO. DATE
     PATENT NO.
                    KIND DATE
     _____________
                                          _____
                                          RO 1975-83584 19751011
RO 1975-83584 19751011
     RO 68158 B 19791030
PI
     Acrylic acid containing 0.01-0.5% hydroquinone was treated with ZnO at
AΒ
     50-120° to give Zn acrylate.
     ANSWER 27 OF 29 CAPLUS COPYRIGHT 2004 ACS on STN
L9
     Surface chemical modification of hard tissues: I.
                                                        Bone
TI
     1978:27759 CAPLUS
AN
DN
     88:27759
     Surface chemical modification of hard tissues: I. Bone
TI
     Brauer, G. M.; Termini, D. J.; Levy, S. M.
ΑU
     Dent. Res. Sect., Natl. Bur. Stand., Washington, DC, USA
CS
     Journal of Dental Research (1977), 56(6), 646-59
SO
     CODEN: JDREAF; ISSN: 0022-0345
DT
     Journal
     English
LA
     Bone surfaces were modified in a controlled manner by grafting or by
AB
     adding interpenetrating polymeric side chains to the bone substrate. The
     properties of the hard tissue surface attained varied widely. The surface
     alteration may improve the ability of hard tissues such as bone or dentin
     to adhere to restorative materials.
     ANSWER 28 OF 29 CAPLUS COPYRIGHT 2004 ACS on STN
L9
     Zinc acrylate and methacrylate
TI
     1977:405403 CAPLUS
AN
```

87:5403

Zinc acrylate and methacrylate

DN

TI

IN Kobayashi, Daizo; Uchino, Hiroyoshi; Shimizu, Noboru

PA Nippon Shokubai Kagaku Kogyo Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PAIN.	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PΙ	JP 51138616	A 2	19761130	JP 1975-61890	19750526
	JP 58014416	В4	19830318	JP 1975-61890	19750526

AB (H2C:CHCO2)2Zn and (H2C:CMeCO2)2Zn were prepared by reaction of H2C:CHCO2H and H2C:CMeCO2H, resp., with ZnO or Zn(OH)2 at 40-100° in H2O-insol. hydrocarbon solvents (capable of forming an azeotropic mixture with H2O), azeotropic removal of H2O, and drying. Thus, 75.66 g H2C:CHCO2H was added to 407 g ZnO in PhMe, the mixture treated 3.5 h at 50-5°, the resulting slurry kneaded 2 h at 50° and 120-80° mm Hg with removal of H2O, and dried to give 1004 g (H2C:CHCO2)2Zn (H2O content 0.1 weight %, purity 99.5%). No adhesion to the kneader was observed

L9 ANSWER 29 OF 29 CAPLUS COPYRIGHT 2004 ACS on STN

TI Unsaturated polyester compositions for bonding molding sand

AN 1976:447596 CAPLUS

DN 85:47596

TI Unsaturated polyester compositions for bonding molding sand

IN Mori, Atsuo; Nakae, Kiyohiko

PA Sumitomo Chemical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp. CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

2711.	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PΙ	JP 51029318	A2	19760312	JP 1974-103181	19740906
	JP 52020410	В4	19770603		
				JP 1974-103181	19740906

AB A composition containing an unsatd. polyester 100, a metal salt of an acrylic acid

or methacrylic acid 10-200, a polymerization catalyst 0.1-20, and a silane 0.05-10 parts was useful as a binder for molding sand. Thus, a mixture of a composition containing 3 moles maleic anhydride and 1 mole isophthalic acid and propylene glycol at equal weight ratio was polymerized to give a polymer (I) [26301-26-8]. Molding sand (500 g), 52.6 g of a composition of 50% of a

mixture

[containing I 100, zinc acrylate [14643-87-9] 46, dicumyl peroxide 5, and A 174 (3-methacryloyloxypropyltrimethoxysilane) [2530-85-0] 2 parts] in acetone, and 0.2% Ca stearate were mixed .apprx.15 min. The resulting composition was molded 1 min at 250° to give a product with flexural strength (JIS K-6910-1964) 57 kg/cm2 and 36 kg/cm2 (at 250°), compared with 55 (35 kg/cm2) for a com. product.

=> d 19 20-24 ti fbib abs

L9 ANSWER 20 OF 29 CAPLUS COPYRIGHT 2004 ACS on STN

TI Synthesis of zinc-containing epoxy resin

AN 1994:55681 CAPLUS

DN 120:55681

TI Synthesis of zinc-containing epoxy resin

AU Anand, Manjit; Srivastava, A. K.

- CS Dep. chem., Harcourt Butler Technol., Kanpur, 208002, India
- SO Journal of Applied Polymer Science (1994), 51(2), 203-11 CODEN: JAPNAB; ISSN: 0021-8995
- DT Journal
- LA English
- Novel energy resins containing In acrylate (I) were synthesized by reacting I with bisphenol-A and an excess of epichlorohydrin. Parameters such as epoxy equivalent weight, OH content, and hydrolyzable Cl content were estimated These resins, characterized by IR, 1H-NMR, and 13C-NMR spectra, were evaluated by thermal anal. Curing was carried out with polyamide at 130° for 24 h. Cured resins have improved thermal and chemical resistance. The reaction follows first-order kinetics. with activation energy 86 and 34 kJ mol-1 in the presence and absence of I. The role of In, which increases epoxidn. due to formation of complex with bisphenol-A, was discussed.
- L9 ANSWER 21 OF 29 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Preparation, structural characterization and electrical properties of zinc acrylate/styrene copolymers
- AN 1991:515176 CAPLUS
- DN 115:115176
- TI Preparation, structural characterization and electrical properties of zinc acrylate/styrene copolymers
- AU Allan, J. R.; Bonner, J. G.; Turvey, K.; Gerrard, D. L.; Birnie, J.
- CS Dep. Appl. Chem. Phys. Sci., Napier Polytech., Edinburgh, EH10 5DT, UK
- SO Plastics, Rubber and Composites Processing and Applications (1991), 15(2), 115-18
 CODEN: PRPAEP; ISSN: 0959-8111
- DT Journal
- LA English
- AB The title novel copolymers were prepared via radical polymerization in solution or
- bulk, and characterized by differential thermal anal., thermogravimetry and, where a suitable solvent could be found, by gel-permeation chromatog. The copolymers had lower mol. weight avs., higher decomposition temps., and higher
- glass transition temps. than the polystyrene (I) prepared via the same polymerization conditions. I, Zn acrylate homopolymer, and the copolymers exhibited ohmic conduction. The room-temperature elec. conductivity passed through a
- maximum at a critical proportion of Zn acrylate in the copolymer. The temperature

dependence of elec. conductivity was also investigated.

- L9 ANSWER 22 OF 29 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Manufacture of aggregation-free zinc acrylate for golf balls
- AN 1991:44678 CAPLUS
- DN 114:44678
- TI Manufacture of aggregation-free zinc acrylate for golf balls
- IN Sasaki, Takashi
- PA Sumitomo Rubber Industries, Ltd., Japan
- SO Jpn. Kokai Tokkyo Koho, 5 pp.
 - CODEN: JKXXAF
- DT Patent
- LA Japanese
- FAN.CNT 1

r AM.	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 02218639 JP 2910856	A2 B2	19900831 19990623	JP 1989-38744	19890217
	01 2310000			JP 1989-38744	19890217

AB Aggregation-free Zn acrylate (I), which shows better dispersibility and gives higher quality golf balls than conventional ones, is manufactured in high

yield by treatment of acrylic acid (II) with Zn compds. in organic solvents, mixing with higher fatty acids under heating, drying, and further mixing with higher fatty acids or their Zn salts. Thus, 600 g ZnO and 1060 g II were kneaded in MePh at 40-50° for 1 h, mixed with 60 g stearic acid at 75° for 30 min, heated in vacuo for 2 h with removal of H2O and MePh, and mixed with 60 g Zn stearate for 30 min to manufacture 1610 g surface-treated I. JSR-BR 11 100, the surface-treated I 31, ZnO 22, dicumyl peroxide 2.0, and antioxidant 0.5 part were mixed, vulcanized at 150° for 30 min, and formed into golf balls, which showed PGA compression 103, restitution coefficient 0.791, and durability index 117, vs. 101, 0.781, and 100, resp., without Zn stearate.

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L9 ANSWER 23 OF 29 CAPLUS COPYRIGHT 2004 ACS on STN
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TI Zinc acrylate

AN 1985:524798 CAPLUS

DN 103:124798

TI Zinc acrylate

PA Sumitomo Rubber Industries, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 3 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

T TATA	·CIVI I				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE.
	FAILMI NO.	IVIIVD	DATE	THE DECEMBER NO.	DITTE
DТ	-JP -60092238	λ2.	10050522	JP 1983-201827	19831026
РI	-UP 00092230	AZ	13030323		13031020
	JP 04010463	B4	19920225		
	01 01010100			TD 1002 001007	10021026
				JP 1983-201827	19831026

AB Zinc acrylate (I) [14643-87-9], useful as a vulcanizing agent for butadiene rubber (no data), is prepared in granular form by treating acrylic acid (II) [79-10-7] with Zn compds., mixing with higher fatty acid Zn salts, and drying. Thus, 1060 g II was stirred with 600 g ZnO in PhMe, treated with a solution of 130 g Zn stearate (III) [557-05-1] in PhMe, and dried in vacuo at 50° to give 1620 g fine particles of III-coated I. I prepared similarly without the III showed sputtering, agglomeration, and deposition on the mixer surfaces during drying.

L9 ANSWER 24 OF 29 CAPLUS COPYRIGHT 2004 ACS on STN

TI Separation of salt-like vinylic compounds in the solid state from aqueous solutions

AN 1985:167322 CAPLUS

DN 102:167322

TI Separation of salt-like vinylic compounds in the solid state from aqueous solutions

IN Arndt, Peter Joseph; Wenzel, Franz; Mueller, Manfred; Schlosser, Fritz

PA Rohm G.m.b.H., Fed. Rep. Ger.

SO Eur. Pat. Appl., 20 pp.

CODEN: EPXXDW

DT Patent

LA German

FAN.CNT 2

11111	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡΙ	EP 132703 EP 132703	A1 B1	19850213 19861230	EP 1984-108165	19840712
	R: DE, FR,	GB		DE 1983-3326117 DE 1984-3418664	19830720 19840519
	DE 3326117	A1	19850131	DE 1983-3326117	19830720
	DE 3418664	A1	19851121	DE 1984-3418664	19840519
PATE	NT FAMILY INFORMA	:NOITA			
FAN	1985:166320				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

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PI
     DE 3326117
                      A1
                           19850131
                                          DE 1983-3326117 19830720
    US 4614827
                           19860930
                      Α
                                          US 1984-629358
                                                           19840710
                                          DE 1983-3326117
                                                          19830720
                                          DE 1984-3418664 19840519 ···
     EP 132703
                      A1
                           19850213
                                          EP 1984-108165
                                                           19840712
    EP 132703
                      В1
                           19861230
        R: DE, FR, GB
                                          DE 1983-3326117 19830720
                                          DE 1984-3418664 19840519
                           19850316
                                                           19840719
     JP 60048946
                      A2
                                          JP 1984-148726
                                          DE 1983-3326117 19830720
                                          DE 1984-3418664 19840519
```

AB In the isolation of solid salts of unsatd. acid derivs., e.g. quaternary ammonium salts of (meth)acrylate ester or amide derivs., from aqueous solution, polymerization is suppressed by using spray drying. Thus, an 80% aqueous solution of

[2-(methacryloyloxy)ethyl]trimethylammonium chloride [5039-78-1] (prepared by pressure quaternization with MeCl) was spray-dried in a tower with a sieve plate rotating at 15,000 rpm and an air inlet temperature of 125° , giving 15 kg/h (.apprx.95% yield) solid monomer containing <1% H2O and no polymer.

=> d 19 15-19 ti fbib abs

- L9 ANSWER 15 OF 29 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Production of zinc acrylate
- AN 1998:534929 CAPLUS
- DN 129:162682
- TI Production of zinc acrylate
- IN Kobayashi, Keiji; Kodama, Yukihisa; Saotome, Minoru; Saito, Yoshinori
- PA Bridgestone Sports Co., Ltd, Japan; Nippon Shokubai Co., Ltd; Nihon Joyu Kogyo Co., Ltd.
- SO U.S., 11 pp. CODEN: USXXAM
- DT Patent
- LA English
- FAN.CNT 1

	··· -						
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
ΡI	US 5789616	Α	19980804	US 1997-874127	19970612		
				US 1997-874127	19970612		

AB A method is provided for the production of zinc acrylate which possesses an essentially fine constitution, permits easy pulverization into a fine powder, and, when kneaded with a rubber composition, attains uniform diffusion in a state very rarely inducing fast adhesion or formation of clusters. The fine zinc acrylate powder is obtained by reacting acid and a C12-30 fatty acid (such as palmitic or stearic acid) with ZnO in an organic solvent while continuing dispersion of the ZnO in the organic solvent in the presence of an anionic surfactant such as AOT. In examples using stearic acid and Pellex OT-P surfactant, Zn acrylate was obtained 59-65% of which had particle size ≤44 μm. Omission of the surfactant resulted in 28% product with particle size ≤44 μm and poor workability.

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L9 ANSWER 16 OF 29 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Antifouling marine coating compositions having self polishing properties
- AN 1998:389237 CAPLUS
- DN 129:68899
- TI Antifouling marine coating compositions having self polishing properties
- IN Sugihara, Mitsunori; Ito, Masamitsu

- PA Mitsubishi Rayon Co., Ltd., Japan
- SO Jpn. Kokai Tokkyo Koho, 7 pp. CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
PΙ	JP 10158547	A2	19980616	JP 1996-336261	19961203		
	JP 3342815	В2	20021111				
				JP 1996-336261	19961203		

- OS MARPAT 129:68899
- AB Title compns. comprise copolymers as vehicles manufactured by polymerization of (a)

monomers having two double bonds and metals, (b) CH2:CR1CO2MR2 (R1 = H, Me; M = Mg, Zn, Cu; R2 = organic acid residue), and (c) unsatd. comonomers. Thus, a copolymer prepared from Mg acrylate 10, Mg acrylate versatic acid salt 15, iso-Bu methacrylate 55, and 2-ethylhexyl acrylate 20 parts was blended with Cu2O, ZnO, SiO2, Disparlon 4200 (antisagging agent), and xylene to give an antifouling coating with good self polishing property and no cracking and peeling after treated in seawater.

- L9 ANSWER 17 OF 29 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Manufacture of zinc acrylate for improved kneadability of rubber compositions
- AN 1997:526088 CAPLUS
- DN 127:150124
- TI Manufacture of zinc acrylate for improved kneadability of rubber compositions
- IN Kobayashi, Keiji; Kodama, Yukihisa; Saotome, Minoru; Saito, Yoshinori
- PA Nippon Shokubai Kagaku Kogyo Co., Ltd., Japan; Nippon Joryu Kogyo K. K.
- SO Jpn. Kokai Tokkyo Koho, 7 pp. CODEN: JKXXAF
- DT Patent
- LA Japanese
- FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	JP 09202747	A2	19970805	JP 1996-12200	19960126
				JP 1996-12200	19960126

- AB Fine Zn acrylate is manufactured by reaction of acrylic acid and C12-30 fatty acids with ZnO while dispersing ZnO in organic solvents in the presence of anionic surfactants. Thus, stirring 1411 g ZnO in PhMe containing 11.4 g Pelex OT-P (Na dioctylsulfosuccinate), treating 540 g stearic acid in the suspension at 40°, further treating 2362 g acrylic acid in the suspension at 40°, heating up to 50°, removing H2O and PhMe, and drying gave 3988 g Zn acrylate (containing Zn stearate) with content of \leq 44- μ m particles 64%. Butadiene rubber was kneaded with 30 phr the particles, showing no adhesion to the inner wall of Banbury mixer.
- L9 ANSWER 18 OF 29 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Ultraviolet ray-curable adhesive compositions for metal hubs
- AN 1997:144279 CAPLUS
- DN 126:145195
- TI Ultraviolet ray-curable adhesive compositions for metal hubs
- IN Ooshima, Kensho
- PA Tosoh Corp, Japan
- SO Jpn. Kokai Tokkyo Koho, 5 pp. CODEN: JKXXAF
- DT Patent
- LA Japanese
- FAN.CNT 1

PATENT NO. KIND DATE

APPLICATION NO. DATE

PI JP 08325527 A2 19961210 JP 1995-136979 19950602 JP 1995-136979 19950602

AB The compns., useful for bonding metal hubs to optical recording disks having resin substrates, contain metal (meth)acrylates, mono- and/or polyfunctional (meth)acrylates and photocuring initiators. Thus, Mg diacrylate 10, tetrahydrofurfuryl acrylate 30, trimethylolpropane triacrylate 30, spiroglycol urethane diacrylate 30, 4- dimethylaminoacetophenone 5, and benzophenone 5 g were mixed, coated on a disk, and cured in UV light with a metal hub to give a test piece showing adhesive strength 43 kg/cm2 initially and 31 kg/cm2 after 2000 h at 80°.

- L9 ANSWER 19 OF 29 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Reactive filler-containing plastisol compositions as sealing agents or undercoatings for crack-, blister-, and scaling-free topcoats
- AN 1995:613057 CAPLUS
- DN 123:289860
- TI Reactive filler-containing plastisol compositions as sealing agents or undercoatings for crack-, blister-, and scaling-free topcoats
- IN Oota, Tatsuro; Ogawa, Tsugio
- PA Kyoeisha Kagaku Kk, Japan
- SO Jpn. Kokai Tokkyo Koho, 7 pp. CODEN: JKXXAF
- DT Patent
- LA Japanese

FAN.CNT 1

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g

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 07082445 A2 19950328 JP 1993-255147 19930917

JP 1993-255147 19930917

AB Title compns. useful for cationic electrodeposition steel plates of automobile bodies, contain (A) poly(vinyl chloride), vinyl chloride copolymers, or their mixts., (B) plasticizers, and (C) unsatd. bond-containing organometallic compds. as reactive fillers. Thus, a plastisol composition containing vinyl chloride polymers (Geon 121, Kanevinyl PSL 10) 100, DOP 150, CaCO3 200, unsatd. bond-containing organometallic compound [prepared from 81.4]

ZnO and 456 g Light Ester HO-ML (COOH-containing methacrylate)] 50, CaO 20, and PbSO4 20 parts showed good storage stability, good adhesion strength, and good crack resistance due to heating or moisture in the topcoat.

=> d 19 10-14 ti fbib abs

- L9 ANSWER 10 OF 29 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Storage stable antifouling coating compositions
- AN 2000:694472 CAPLUS
- DN 133:283086
- TI Storage stable antifouling coating compositions
- IN Sugihara, Mitsunori; Ikegami, Yukihiro; Hotta, Kazuhiko; Nagasaka, Toshio; Iwase, Kunio
- PA Mitsubishi Rayon Co., Ltd., Japan
- SO Jpn. Kokai Tokkyo Koho, 11 pp.
 - CODEN: JKXXAF
- DT Patent
- LA Japanese
- FAN.CNT 1

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	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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ΡΊ	JP 2000273366	A2	20001003	JP 1999-78439 JP 1999-78439	19990323 19990323

AB Title compns. comprise (A) copolymers of monomer mixts. containing

metal-containing polymerizable monomers and (B) compds. R1MR2, where M = Mg, Zn, or Cu and R1-2 = organic acid residue. Thus, a composition comprising a vehicle solution containing zinc methacrylate-Me methacrylate-Et acrylate copolymer 40, zinc versatate 8.8, cuprous oxide 20, zinc white 15, silica 3, Disparlon 4200 1, and xylene 8 parts was applied on a sandblasting steel immediately and after 6 mo storage, giving good marine antifouling property and crack and peeling resistance in both cases.

- L9 ANSWER 11 OF 29 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Storage stable antifouling coating compositions giving coating films with long-lasting antifouling properties, low hardness change, crack resistance, and good adhesion
- AN 2000:694471 CAPLUS
- DN 133:283085
- TI Storage stable antifouling coating compositions giving coating films with long-lasting antifouling properties, low hardness change, crack resistance, and good adhesion
- IN Sugihara, Mitsunori; Ikegami, Yukihiro; Hotta, Kazuhiko; Nagasaka, Toshio; Iwase, Kunio
- PA Mitsubishi Rayon Co., Ltd., Japan
- SO Jpn. Kokai Tokkyo Koho, 10 pp. CODEN: JKXXAF
- DT Patent
- LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
				<b>_</b>			
ΡI	JP 2000273365	A2	20001003	JP 1999-78438	19990323		
	JP 3273033	B2	20020408				
				JP 1999-78438	19990323		

- AB Title compns. comprise copolymers of monomer mixts. containing metal-containing monomers CH2:CR1COOMR2 and CH2:CR3COOMR4 as vehicles, where R1, R3 = H or Me; M = Mg, Zn, or Cu; R2 = unsatd. group-containing organic acid residue; and R4
- = organic acid residue not containing unsatd. group. Thus, a composition comprising a

storage stable varnish containing zinc acrylate versatate-zinc methacrylate versatate-zinc methacrylate oleate-Me methacrylate-Et acrylate copolymer 40, cuprous oxide 20, zinc white 15, silica 3, Disparlon 4200 1, and xylene 8 parts was applied on a sandblasting steel giving good marine antifouling property for  $\geq 30$  mo.

- L9 ANSWER 12 OF 29 CAPLUS COPYRIGHT 2004 ACS on STN
- ${\tt TI}$  In situ preparation of zinc salts of unsaturated carboxylic acids to reinforce NBR
- AN 2000:521959 CAPLUS
- DN 133:224028
- ${\tt TI}$  In situ preparation of zinc salts of unsaturated carboxylic acids to reinforce NBR
- AU Yuan, Xinheng; Peng, Zonglin; Zhang, Yong; Zhang, Yinxi
- CS Polymeric Materials Research Institute, Shanghai Jiaotong University, Shanghai, 200240, Peop. Rep. China
- SO Journal of Applied Polymer Science (2000), 77(12), 2740-2748 CODEN: JAPNAB; ISSN: 0021-8995
- PB John Wiley & Sons, Inc.
- DT Journal
- LA English
- AB Through the neutralization reaction of zinc oxide (ZnO) and methacrylic acid (MAA) or acrylic acid (AA), zinc methacrylate (ZMA) or zinc acrylate (ZA) was in situ prepared in nitrile rubber (NBR). The mech. properties and crosslinking structure of the resulting peroxide-cured NBR vulcanizates were studied. The results showed that ZnO/MAA (AA) had a great reinforcing effect for NBR, and their amts. and ratio played important

roles in influencing the mech. properties. Such vulcanizate contains both covalent crosslinks and salt crosslinks, and the change in the tensile strength of the vulcanizate was related to the variation of the salt crosslink d.

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L9 ANSWER 13 OF 29 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Rubber golf balls and mixed acid zinc salt as co-crosslinking agents for use in their manufacture
- AN 1999:48882 CAPLUS
- DN 130:111453
- TI Rubber golf balls and mixed acid zinc salt as co-crosslinking agents for use in their manufacture
- IN Ekashira, Yoshinori; Shindo, Jun
- PA Bridgestone Sports Co., Ltd., Japan
- SO Jpn. Kokai Tokkyo Koho, 6 pp. CODEN: JKXXAF
- DT Patent
- LA Japanese
- FAN.CNT 1

77 11000700 70 10000110		
77 77 41000700 70 10000110		
11 01 11003720 12 10000	JP 1997-184496 JP 1997-184496	19970625 19970625

- AB Title golf balls comprise vulcanized moldings of compns. containing co-crosslinking agents obtained by dispersing ZnO in organic solvents in the presence of anionic surfactants and treating acrylic acid (I) and C12-30 higher fatty acids with ZnO. Thus, I and stearic acid were treated with ZnO in toluene in the presence of Na dioctylsulfosuccinate to give a Zn salt mixture, which was mixed with a polybutadiene rubber composition and hot pressed to give a test piece showing good hardness and repulsion property.
  - L9 ANSWER 14 OF 29 CAPLUS COPYRIGHT 2004 ACS on STN
  - TI Antifouling paint compositions
  - AN 1998:790633 CAPLUS
  - DN 130:26292
  - TI Antifouling paint compositions
  - IN Sugihara, Mitsunori; Hotta, Kazuhiko; Ito, Masamitsu

KIND DAME

- PA Mitsubishi Rayon Co., Ltd., Japan
- SO PCT Int. Appl., 24 pp.
  - CODEN: PIXXD2
- DT Patent
- LA Japanese
- FAN.CNT 1

	PAT	ENT N	10.		KII	ND	DATE			AĿ	SETI	CATT	ON NC	٠.	DATE			
ΡI	WO	98530				1	1998	1126		WC	199	98-JI	2155	5	1998	0515		
				-		CY,	DE,	DK,	ES,	FI,	FR,	GB,	GR,	IE,	IT,	LU,	MC,	NL,
			,	~-						JE	19	97-12	29850	) A	1997	0520		
	ΕP	10061	L56		A	1	2000	0607		EE	199	98-93	19619	9	1998	0515		
		R:	DE,	DK,	ES,	FR,	GB,	NL,	SE,	FΙ								
				•		·				JE	19	97-12	29850	) A	1997	0520		
										WC	19	98-JI	P2155	5 W	1998	0515		
	JP	11035	5877		A	2	1999	0209		JE	19	98-13	35132	2	1998	0518		
	JP	33130	)66		B:	2	2002	0812										
										JE	2 19	97-12	29850	<b>A</b> C	1997	0520		
	US	61775	530		В	1	2001	0123		US	3 19	99-43	32182	2	1999	1102		
										J	2 19	97-12	29850	A C	1997	0520		
										WC	19	98-J	P2155	5 A.	1998	0515		

AB The title composition contain, as a vehicle, a copolymer of a monomer mixture

ADDITION NO.

שאתב

of

a metal-containing polymerizable monomer (al) having two unsatd. groups and another metal-containing polymerizable monomer (a2) CH2:CR1CO2MR2 (R1 = H, Me; M = Mg, Zn, Cu; R2 = an organic acid residue). A copolymer was prepared from Zn acrylate 12, Zn Versatate acrylate 18, Me methacrylate 20, and Et acrylate 50 parts.

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

## => e zinc diacrylate/cn

| E1 | 1  | ZINC | DIACETYLDITHIOCARBAMATE/CN          |
|----|----|------|-------------------------------------|
| E2 | 1  | ZINC | DIACID PHOSPHATE/CN                 |
| E3 | 1> | ZINC | DIACRYLATE/CN                       |
| E4 | 1  | ZINC | DIACRYLATE HOMOPOLYMER/CN           |
| E5 | 1  | ZINC | DIAMMINE DINITRATE/CN               |
| E6 | 1  | ZINC | DIAMMONIUM DISULFATE HEXAHYDRATE/CN |
| E7 | 1  | ZINC | DIAMYL DITHIOPHOSPHATE/CN           |

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E8
             1
                    ZINC DIAMYLDITHIOCARBAMATE/CN
E9
             1
                    ZINC DIAMYLPHENYL PHOSPHATE/CN
E10
             1
                    ZINC DIARSENIDE/CN
E11
             1
                    ZINC DIATOMIC MOLECULE/CN
             7
E12
                    ZINC DIBENZOATE/CN
=> e3
             1 "ZINC DIACRYLATE"/CN
L1
=> d 11
     ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
     14643-87-9 REGISTRY
     2-Propenoic acid, zinc salt (9CI) (CA INDEX NAME)
CN
OTHER CA INDEX NAMES:
     Acrylic acid, zinc salt (8CI)
CN
     Zinc acrylate (7CI)
CN
OTHER NAMES:
     Actor ZA
CN
     Blemmer S 122
CN
     RR-ZDA
CN
CN
     Saret 633
CN
     Sartomer 633
     SR 111
CN
     SR 526
CN
     SR 633
CN
     SR 633 (acrylate)
CN
     SR 705
CN
     SR 706
CN
CN
     Zinc diacrylate
CN
     Zinc(II) acrylate
CN
     ZNDA 90S
     120220-24-8, 113329-02-5, 70507-67-4, 142605-01-4, 191744-27-1
DR
MF
     C3 H4 O2 . 1/2 Zn
CI
     COM
       N Files: BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CIN, CSCHEM, GMELIN*, IFICDB, IFIPAT, IFIUDB, PIRA, PROMT,
LC
     STN Files:
       TOXCENTER, USPAT2, USPATFULL
         (*File contains numerically searchable property data)
                     EINECS**, NDSL**, TSCA**
     Other Sources:
         (**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Conference; Journal; Patent
       Roles from patents: BIOL (Biological study); PREP (Preparation); PROC
       (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses);
       NORL (No role in record)
       Roles for non-specific derivatives from patents: BIOL (Biological
       study); PREP (Preparation); PRP (Properties); USES (Uses)
       Roles from non-patents: PREP (Preparation); PROC (Process); PRP
       (Properties); RACT (Reactant or reagent); USES (Uses)
RLD.NP Roles for non-specific derivatives from non-patents: PREP
       (Preparation); PRP (Properties); USES (Uses)
CRN (79-10-7)
HO-C-CH-CH2
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1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
=> e zinc acrylate/cn
                   ZINC ACEXAMATE/CN
            1
                   ZINC ACID PHOSPHATE/CN
E2
             1
             1 --> ZINC ACRYLATE/CN
E3
E.4
            1
                  ZINC ACRYLATE HOMOPOLYMER/CN
                   ZINC ACRYLATE POLYMER/CN
E5
            1
                   ZINC ACRYLATE-CALCIUM ACRYLATE-LAURYL VINYL ETHER COPOLYMER/
             1
E6
                   ZINC ACRYLATE-CALCIUM ACRYLLATE-LAURYL VINYL ETHER POLYMER/C
            1
E7
                   ZINC ACRYLATE-LAURYL VINYL ETHER COPOLYMER/CN
             1
E8
                   ZINC ACRYLATE-LAURYL VINYL ETHER POLYMER/CN
E9
             1
             1
                   ZINC ACRYLATE-STYRENE COPOLYMER/CN
E10
                   ZINC ACRYLATE-VINYL CHLORIDE COPOLYMER/CN
             1
E11
             1
                   ZINC ADIPATE/CN
E12
=> e3
             1 "ZINC ACRYLATE"/CN
=> d 12
     ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
T<sub>1</sub>2
     14643-87-9 REGISTRY
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    SR 111
    SR 526
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CN
    SR 633
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    SR 705
     SR 706
CN
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CN
     Zinc(II) acrylate
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CN
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     120220-24-8, 113329-02-5, 70507-67-4, 142605-01-4, 191744-27-1
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                  BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS,
LC
       CHEMLIST, CIN, CSCHEM, GMELIN*, IFICDB, IFIPAT, IFIUDB, PIRA, PROMT,
       TOXCENTER, USPATZ, USPATFULL
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     Other Sources:
                      EINECS**, NDSL**, TSCA**
         (**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Conference; Journal; Patent
       Roles from patents: BIOL (Biological study); PREP (Preparation); PROC
RL.P
       (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses);
       NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: BIOL (Biological
       study); PREP (Preparation); PRP (Properties); USES (Uses)
```

486 REFERENCES IN FILE CA (1907 TO DATE)

486 REFERENCES IN FILE CAPLUS (1907 TO DATE)

27 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

RL.NP Roles from non-patents: PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RLD.NP Roles for non-specific derivatives from non-patents: PREP (Preparation); PRP (Properties); USES (Uses)
CRN (79-10-7)

●1/2 Zn

486 REFERENCES IN FILE CA (1907 TO DATE)

27 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

486 REFERENCES IN FILE CAPLUS (1907 TO DATE)

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> logoff hold COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 13.24 13.45

FULL ESTIMATED COST

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 11:42:42 ON 04 JUN 2004